wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the

exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consisting of benzyl, diphenylmethyl, phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic or a hydrogenated ring and either directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, benzyl, phenyl,

anellated bi- and tricyclic aromatic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic ring and either directly or over a methylene group;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

G^2 is $=CR^8R^9$

which is bound to D by means of a double bond, wherein R^8 and R^9 have the above meaning;

G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$

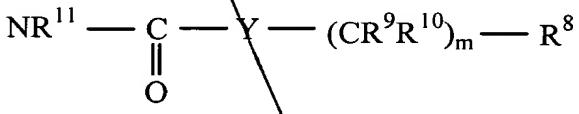
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2

X is NR^{11}, O or S wherein

R^{11} has the same meanings as R^4, but is selected independently thereof,

G^4 is selected from the group consisting of



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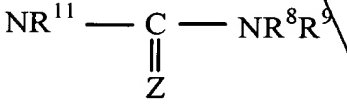
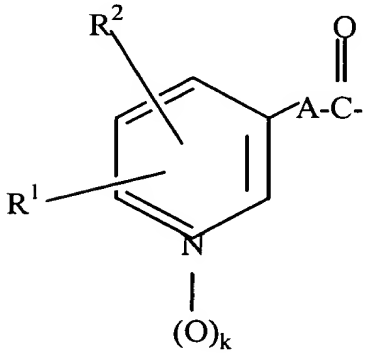
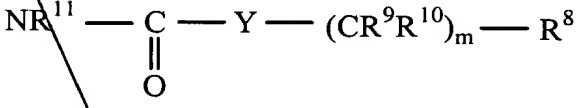


wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues



and



are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

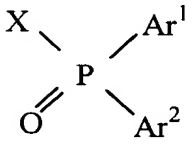
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



wherein X has the above meanings and

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl; and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-

cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

33. (Once amended) The compounds according to claim 32 wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, ethinyl, hydroxy, C_1-C_4-alkoxy, benzyloxy, C_1-C_4-alkylthio, C_2-C_5-alkoxycarbonyl, aminocarbonyl, C_3-C_9-dialkylaminocarbonyl, carboxy, phenoxy, phenylthio, and pyridyloxy;

R^2 is selected from the group consisting of hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl, trifluoromethyl, hydroxy, C_1-C_4-alkoxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_3-alkyl, allyl, hydroxy, C_1-C_3-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted once or twice by C_1-C_3-alkyl, hydroxy, fluorine, or phenyl,

C_2-C_6-alkylene, wherein a methylene unit is isosterically replaced by O, S, NH, $N(CH_3)$ or CO, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, phenyl, hydroxy or fluorine,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by methyl, or fluorine,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by methyl or fluorine, and

ethinylene,

C1

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NH, $N(CH_3)$, $N(COCH_3)$, $N(SO_2CH_3)$, CO or SO_2;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

C1

R^8 is selected from the group consiting of benzyl, diphenylmethyl, phenyl, benzocyclobutyl, indanyl, indenyl, oxoindanyl, napthyl, dihydronapthyl, tetrahydronaphthyl, biphenylenyl, fluorenyl, oxofluorenyl, anthryl, dihydroanthryl, oxodihydroanthryl, dioxodihydroanthryl, phenanthryl, dibenzocycloheptenyl, dihydrodibenzocycloheptenyl, oxodihydrodibenzocyclooctenyl, tetrahydrodibenzocyclooctenyl,

benzofuryl, dihydrobenzofuryl, benzothienyl, dihydrobenzothienyl, indolyl, indolinyl, isoindolinyl, oxoindolinyl, dioxoindolinyl, benzooxazolyl, oxobenzooxazolinyl, benzoisoxazolyl, oxobenzoisoxazolinyl, benzothiazolyl, oxobenzothiazolinyl, benzoisothiazolyl, oxobenzoisothiazolinyl, benzoimidazolyl, oxobenzoimidazolinyl, indazolyl, oxoindazolinyl, benzofurazanyl, benzothiadiazolyl, benzotriazolyl, benzopyranyl, quinolyl, isoquinolinyl, dihydroquinolinyl, oxodihydroquinolinyl, tetrahydroquinolinyl, oxotetrahydroquinolinyl, benzodioxanyl, quinoxalinyl, quinazolinyl, naphthyridinyl, carbazoleyl, tetrahydrocarbazolyl, pyridoindolyl, 1,1-dioxo-1-thia-2-aza-acenaphthenyl, acridinyl, oxodihydroacridinyl, phenanthridinyl, oxodihydrophenanthridinyl, dihydrobenzoisochinolinyl, oxodihydrobenzosoquinolinyl, phenothiazinyl, dihydrodibenzooxepinyl, oxodihydrodibenzooxepinyl, benzocycloheptathienyl, oxobenzocycloheptathienyl, dihydrothienobenzothiepinyl, oxodihydrothienobenzothiepinyl, dihydrodibenzothiepinyl, oxodihydrodibenzothiepinyl, octahydrodibenzothiepinyl, dibenzoazepinyl, dihydrodibenzoazepinyl, oxodihydrodibenzoazepinyl, octahydrodibenzoazepinyl,

benzocycloheptapyridyl, oxobenzocycloheptapyridyl, pyridobenzoazepinyl, dihydropyridobenzoazepinyl, oxodihydropyridobenzoazepinyl, dihydropyridobenzodiazepinyl, oxodihydropyridobenzodiazepinyl, dihydrodibenzooxazepinyl, dihydropyridobenzooxepinyl, dihydropyridobenzooxazepinyl, oxodihydropyridobenzooxazepinyl, dihydrodibenzothiazepinyl, oxodihydrodibenzothiazepinyl, dihydropyridobenzothiazepinyl, oxodihydropyridobenzothiazepinyl, bound directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, C_3-C_8-cycloalkyl, benzyl, phenyl;

indanyl, indenyl, oxoindanyl, naphthyl, dihydronaphthyl, tetrahydronaphthyl, biphenylenyl, anthryl, dihydroanthryl, oxodihydroanthryl, phenanthryl, dibenzocycloheptenyl, dihydrodibenzocycloheptenyl, oxodihydrodibenzocycloheptenyl,

benzofuryl, benzothienyl, indolyl, indolinyl, isoindolinyl, oxoindolinyl, dioxoindolinyl, benzooxazolyl, oxobenzooxazolinyl, benzoisoxazolyl, oxobenzoisoxazolinyl, benzothiazolyl, oxobenzothiazolinyl, benzoisothiazolyl, oxobenzoisothiazolinyl,benzoimidazolyl, oxobenzoimidazolinyl, indazolyl, oxoindazolinyl, benzothiadiazolyl, benzotriazolyl, quinolinyl, isoquinolinyl, oxodihydroquinolinyl, tetrahydroquinolinyl, oxotetrahydroquinolinyl, carbazolyl, pyridoindolyl, dihydrobenzoisoquinolinyl, phenothiazinyl;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

G^2 is $=CR^8R^9$

which is bound to D over a double bond, wherein R^8 and R^9 have the above meaning or whereby the grouping $=CR^8R^9$ can also be a ring system bound over the carbon atom, selected from indanyl, indenyl, tetrahydronaphthyl, fluoroenyl, dihydroanthryl, dibenzocycloheptenyl, dihydrodibenzocycloheptenyl; indolinyl, isoindolinyl, oxoindolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, dihydroacridinyl, dihydrodibenzooxepinyl, dihydrothienobenzothiepinyl, dihydrodibenzothiepinyl, dibenzoazepinyl, dihydrodibenzoazepinyl, benzocycloheptapyridinyl, dihydrobenzocycloheptapyridinyl, pyridobenzoazepinyl, dihydropyridobenzoazepinyl, oxodihydropyridobenzooxepinyl, dihydropyridobenzothiepinyl;

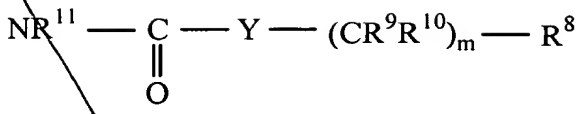
G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2,

X is NR^{11}, O or S wherein

R^{11} is selected from the group consisting of hydrogen, C_1-C_3-alkyl, allyl, propinyl, benzyl and phenyl,

G^4 is selected from the group consisting of



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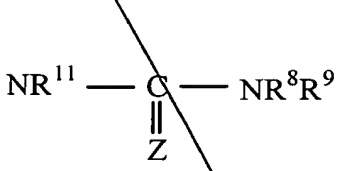
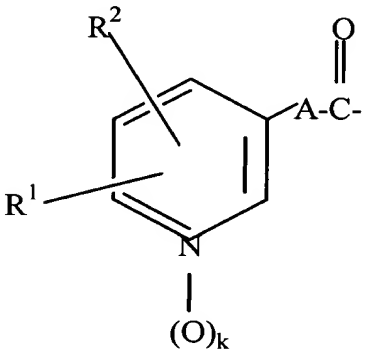


wherein structural element D-G does not contain a total of more than 1 amide group wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the group NR^8R^9 can have the above meanings wherein the residues



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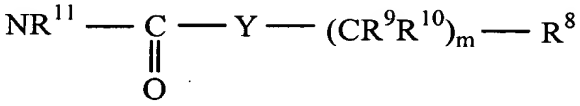


are not identical,

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, and a bond, and

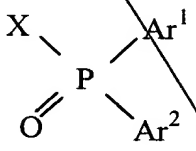
Z is O or S;

G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of, phenyl, indenyl, naphthyl, anthryl, indolyl, benzothienyl and quinolinyl;

G^6 is



wherein X has the above meanings and

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, and naphthyl;

and wherein aromatic ring systems in the substitutents R^1, R^3, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benzyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy,

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-

alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino.

34. The compounds according to claim 33 wherein

R^1 is selected from the group consisting of hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifulorомethyl, hydroxy, C_1-C_4-alkoxy, phenoxy, methylthio, ethylthio, methoxycarbonyl, aminocarbonyl and carboxy;

R^2 is selected from the group consisting of hydrogen, chlorine, methyl, hydroxy, and methoxy;

R^3 is hydrogen;

k is 0;

A is selected from the group consisting of C_2-C_6-alkylene,

a substituted C_2-C_6-alkylene which is substituted once or twice by hydroxy or fluorine,

C_2-C_6-alkylene, wherein a methylene unit is isosterically replaced by O, S, or CO, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted by methyl or fluorine,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted by methyl,

ethinylene,

D is selected from the group consisting of

C_3-C_{10}-alkylene,

a substituted C_3-C_{10}-alkylene which is substituted by methyl, hydroxy or phenyl,

C_3-C_{10}-alkenylene,

a substituted C_3-C_{10}-alkenylene which is substituted by methyl, hydroxy or phenyl,

C_3-C_{10}-alkinylene,

a substituted C_3-C_{10}-alkinylene which is substituted by hydroxy or phenyl,

C_3-C_{10}-alkylene, C_3-C_{10}-alkenylene or C_3-C_{10}-alkinylene, wherein a methylene unit is isosterically replaced by O, NH, $N(CH_3)$, or CO, or an ethylene group is isosterically replaced by a group NH-CO or CO-NH, or a propylene group is isosterically replaced by a group NH-CO-NH or NH-CO-O or O-CO-NH;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consiting of benzyl, diphenylmethyl, phenyl, indanyl, indenyl, oxoindanyl, napthyl, tetrahydronaphthyl, fluorenyl, oxofluorenyl, anthryl, dihydroanthryl, oxodihydroanthryl, phenanthryl, dibenzocycloheptenyl, dihydrodibenzocycloheptenyl, oxodihydrodibenzocyclooctenyl,

benzofuryl, benzothienyl, indolyl, indolinyl, isoindolinyl, oxoindolinyl, benzooxazolyl, oxobenzooxazolinyl, benzoisoxazolyl, oxobenzoisoxazolinyl, benzothiazolyl, oxobenzothiazolinyl, benzoisothiazolyl, oxobenzoisothiazolinyl, benzoimidazolyl, oxobenzoimidazolinyl, benzothiadiazolyl, benzotriazolyl, quinolyl, isoquinolinyl, oxodihydroquinolinyl, tetrahydroquinolinyl, oxotetrahydroquinolinyl, quinoxalinyl, quinazolinyl, naphthyridinyl, carbazoleyl, pyridoindolyl, 1,1-dioxo-1-thia-2-aza-acenaphthenyl, acridinyl, oxodihydroacridinyl, phenanthridinyl, dihydrobenzoisochinolinyl, oxodihydrobenzosoquinolinyl, dihydrodibenzooxepinyl, dibenzoazepinyl, dihydrodibenzoazepinyl, oxodihydrodibenzoazepinyl, benzocycloheptapyridyl, pyridobenzoazepinyl, dihydropyridobenzoazepinyl, oxodihydropyridobenzoazepinyl,

dihydropyridobenzodiazepinyl, oxodihydropyridobenzodiazepinyl or dihydrodibenzooxazepinyl;

R^9 is selected from the group consisting of hydrogen and C_1-C_3-alkyl, C_3-C_8-cycloalkyl, benzyl, phenyl, indanyl, indenyl, naphthyl anthryl;

benzofuryl, benzothienyl, indolyl, benzooxazolyl, oxobenzooxazolinyl, benzoisoxazolyl, benzothiazolyl, benzoisothiazolyl, benzoimidazolyl and benzotriazolyl;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

G^2 is $=CR^8R^9$

which is bound to D over a double bond, wherein R^8 and R^9 have the above meaning or whereby the grouping $=CR^8R^9$ can also be a ring system bound over the carbon atom, selected from indanyl, indenyl, tetrahydronaphthyl, fluoroenyl, dihydroanthryl, dibenzocycloheptenyl, dihydrodibenzocycloheptenyl; indolinyl, isoindolinyl, oxoindolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, dihydroacridinyl, dihydrodibenzooxepinyl, dihydrothienobenzothiepinyl, dihydrodibenzothiepinyl, dibenzoazepinyl, dihydrodibenzoazepinyl, benzocycloheptapyridinyl, dihydrobenzocycloheptapyridinyl, pyridobenzoazepinyl, dihydropyridobenzoazepinyl, oxodihydropyridobenzooxepinyl, dihydropyridobenzothiepinyl;

G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$

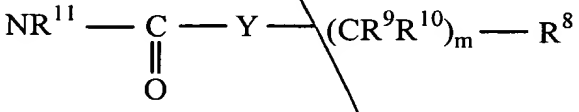
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0 or 1,

X is NR^{11}, O or S wherein

R^{11} is selected from the group consisting of hydrogen, C_1-C_3-alkyl, benzyl and phenyl,

G^4 is selected from the group consisting of



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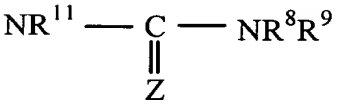
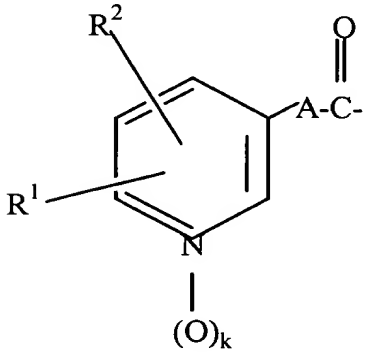


wherein structural element D-G does not contain a total of more than 1 amide grouping wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the group NR^8R^9 can have the above meanings wherein the residues



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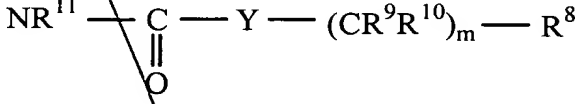


are not identical,

Y is selected from the grouping consisting of methylene, ethenylene, and a bond, and

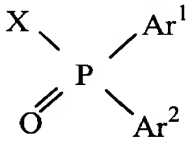
Z is O or S;

G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of, phenyl, naphthyl, anthryl, benzothienyl and quinolinyl;

G^6 is



wherein X has the above meanings and

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, and naphthyl;

and wherein aromatic ring systems in the substituted R^1, R^3, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benzyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, nitro, amino, C_1-

C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different residues selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino.

35. The compounds according to claim 34 wherein

R^1 is selected from the group consisting of hydrogen, fluorine, methyl, trifuloromethyl and ethylthio;

R^2 is hydrogen;

R^3 is hydrogen;

k is 0;

A is selected from the group consisting of ethylene and butylene,

a substituted ethylene or butylene which is substituted by hydroxy or one or two fluorine atoms, or OCH_2, SCH_2,

ethenylene or 1,3-butadienylene;

D is selected from the group consisting of

C_3-C_8-alkylene,

a substituted C_3-C_8-alkylene which is substituted by hydroxy or phenyl,

C_3-C_8-alkenylene,

a substituted C_3-C_8-alkenylene which is substituted by phenyl,

C_3-C_8-alkinylene; and

C_3-C_8-alkylene, C_3-C_8-alkenylene or C_3-C_8-alkinylene, in which one or two methylene units in the C_3-C_8-alkylene, C_3-C_8-alkenylene or C_3-C_8-alkinylene are isosterically replaced by O, NH or CO;

G is selected from the group consisting of

cyclopentylphenylmethylene, cyclohexylphenylmethyl, cyclohexylhydroxyphenylmethyl, diphenylmethyl, diphenylhydroxymethyl, diphenylmethylene, diphenylethyl, diphenylhydroxy ethyl, diphenylethylene, triphenylmethyl, triphenylethyl, triphenylhydroxyethyl, triphenylethylene, naphthylmethylene, naphthyl, tetrahydronaphthyl, hydroxytetrahydronaphthyl, tetrahydronaphthylidene, fluoroenyl, hydroxyfluoroenyl, fluoroenylidene, tetrahydrobenzocyclohetenylidene, dihydrodibenzocycloheptenyl, hydroxydihydrodibenzocycloheptenyl, dihydrodibenzocycloheptenylidene,

phenyl-thienylmethyl, phenyl-thienylhydroxymethyl, phenyl-thienylmethylene, phenyl-furylmethyl, phenyl-furyl-hydroxymethyl, phenyl-furylmethylene, phenyl-

pyridylmethyl, phenyl-pyridylhydroxymethyl, phenyl-pyridylmethylene,

C1

tetrahydroquinolinyl, tetrahydroisoquinolinyl, benzocycloheptapyridinyl, benzocycloheptapyridinylidene, dihydrobenzocycloheptapyridinyl, dihydrobenzocycloheptapyridinylidene, dihydrodibenzooxepinyl, dihydrodibenzooxepinylidene, dihydrodibenzothiepinyl, dihydrodibenzothiepinylidene,

phenylpyrrolyl, diphenylpyrrolyl, phenylthienyl, diphenyl-thienyl, phenylpyrazolyl, phenylimidazolyl, diphenylimidazolyl, phenylpyridyl, diphenylpyridyl, indolyl, oxoindolinyl, benzoimidazolyl, ozobenzoimidazolyl, benzothiazolyl, oxobenzothiazolyl, benzoisothiazolyl, benzooxzzolyl, oxobenzooxazolyl, benzotriazolyl,

diphenylmethylamino, diphenylmethyl-methylamino, dibenzylamino, benzylphenylamino, cyclohexlphenylamino, triphenylmethylamino, biphenylylamino, diphenylamino, N-indolinyl, N-isoindolinyl, N-tetrahydroquinolinyl, N-tetrahydrobenzazepinyl, N-phenyltetreahydrobenzoazepinyl, N-1,1-dioxo-1-thia-2-azaacenaphthenyl, N-1H,3H-benzo[d,e]-isoquinolinyl, N-dihydrodibenzoazepinyl,

diphenylmethyloxy, diphenylmethylthio,

diphenylacetylamino, diphenylacetyl-phenylamino, diphenylpropionylamino, diphenylacryloylamino, naphthylacetylamino, furoylacrylamino, benzoylamino, napthoylamino, oxofluroroenylcarbonylamino, furoylamino,

diphenylmethylaminocarbonylamino,
dibenzylaminocarbonylamino,
naphthylmethyaminocarbonylamino,
biphenylylaminocarbonylamino, naphthylaminocarbonylamino,
benzylphenylaminocarbonylamino,
diphenylaminocarbonylamino, diphenylaminocarbonyl-phenylamino, diphenylfurylaminocarbonylamino, indolinyl-N-carbonylamino, isoindolinyl-N-carbonylamino, 1H,3H-benzo[d,e]isoquinolinyl-N-carbonylamino,
tetrahydrobenzoazepinyl-N-carbonylamino,
phenyltetrahydrobenzoazepinyl-N-carbo-nylamino,
dihydrodibenzoazepin-N-carbonylamino,
dihydrobenzopyridoazepinyl-N-carbonylamino,

tolylsulfonylamino, naphthylsulfonylamino,
diphenylphosphinoylamino and diphenylphosphinoyloxy,

and wherein aromatic ring systems in G can be substituted independently from each other by one to three groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benzyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

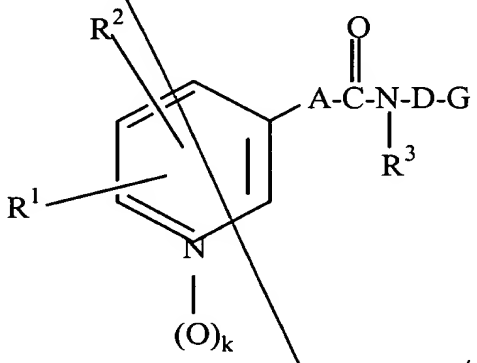
wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-

alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino.

36. The compounds of formula (I) of claim 32, wherein the compounds are selected from the group consisting of

N-[8,8-bis-(4-fluorophenyl)-octyl]-3-pyridin-3-yl-acryl-amindehydrochloride,
N-[6-(3,3-diphenyl-ureido)-hexyl]-3-pyridin-3-yl-acrylamide,
N-[4-(1-phenyl-1,2,4,5-tetrahdyrobenzo[d]azepin-3-yl)-butyl]-3-pyridin-3yl-acrylamide,
N-(8,8-diphenyl-octyl)-3-pyridin-3-yl-acrylamide,
N-(8-hydroxy-8,8-diphenyl-octyl)-3-pyridin-3-yl-acrylamide,
N-[4-(3,3-diphenyl-ureido)-butyl]-3-pyridin-3-yl-acrylamide,
N-[4-(1H,3H-benzo[d,e]isoquinolin-2-yl)-butyl]-3-pyridin-3-yl-arcylamide,
N-[6-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonylamino)-hexyl]-3-pyridin-3-yl-acrylamide,
N-[4-(1,1-dioxo-1-thia-2-aza-acenaphthylen-2-yl)-butyl]-3-pyridin-3-yl-acrylamide,
N-(6-hydroxy-6,6-diphenyl-hexyl)-3-pyridin-3-yl-acrylamide,
N-(6,6-diphenyl-hex-5-enyl)-3-pyridin-3-yl-acrylamide,
N-[4-(4,5-diphenyl-imidazol-1-yl)-butyl]-3-pyridin-3-yl-acrylamide,
N-(5-hydroxy-5,5-diphenyl-pentyl)-3-pyridin-3-yl-acrylamide,
N-(7-phenyl-heptyl)-3-pyridin-3-yl-acrylamide,
N-(4-diphenylacetylamino-butyl)-3-pyridin-3-yl-acrylamide,
N-[4-(benzhydryl-amino)-butyl]-3-pyridin-3-yl-acrylamide and
N-(4-([2-(benzhydrylmethylamino)-ethyl]-methylamino)-butyl)-3-pyridin-3-yl-acrylamide.

37. A pharmaceutical composition comprising one or more of the compounds according to formula (I) and pharmaceutically acceptable salts of formula (I)



(I)

wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

C1

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consisting of benzyl, diphenylmethyl, phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic or a hydrogenated ring and either directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, benzyl, phenyl,

anellated bi- and tricyclic aromatic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein

the linkage can occur over an aromatic ring and either directly or over a methylene group;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

G^2 is $=CR^8R^9$

which is bound to D by means of a double bond, wherein R^8 and R^9 have the above meaning;

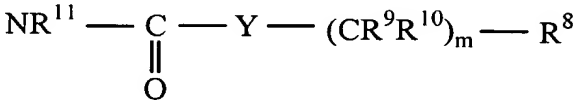
G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2

X is NR^{11}, O or S wherein

R^{11} has the same meanings as R^4, but is selected independently thereof,

G^4 is selected from the group consisting of



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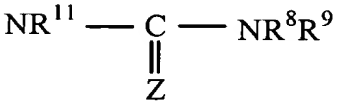
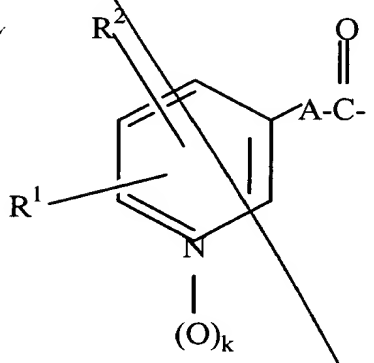


wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents

R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues



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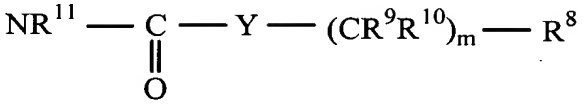


are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

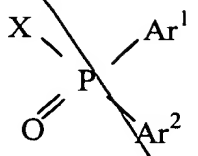
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



wherein X has the above meanings and

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl;

and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other

isomers, the tautomers and their acid addition salts including their hydrates and solvates.

38. The pharmaceutical composition of claim 37 wherein the composition is provided in a form selected from the group consisting of solid, peroral administrable form as a tablet, capsule, coated tablet, liquid, gastric fluid-resistant preparation, suspension, effervescent tablet, tabs or sachets, sustained action form, parenteral depot medicinal form, implant, inhalant, concentrate, powder, rectal administrable emulsion, genital administrable emulsion, transurethral administrable emulsion, liposomal administrable emulsion, lyophilisate, spray, transdermal, salve, emulsion, balm, plaster and mixtures thereof.

39. The method of claim 37 wherein a dosage unit for administration includes 0.001 to 5000 mg active ingredient.

40. The method of claim 39 wherein a dosage unit for administration includes 0.001 to 4000 mg active ingredient.

41. The method of claim 40 wherein a dosage unit for administration includes 0.001 to 3000 mg active ingredient.

42. The method of claim 41 wherein a dosage unit for administration includes 0.001 to 2000 mg active ingredient.

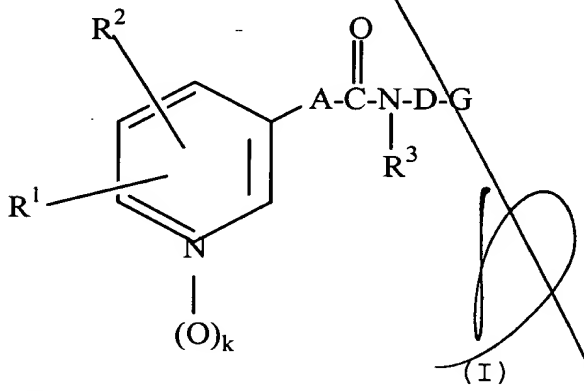
43. The method of claim 42 wherein a dosage unit for administration includes 0.001 to 1000 mg active ingredient.

44. The method of claim 43 wherein a dosage unit for administration includes 0.01 to 100 mg active ingredient.

45. The method of claim 44 wherein a dosage unit for administration includes 1 to 10 mg active ingredient.

46. The method of claim 45 wherein a dosage unit for administration includes 1, 2, 5, 10, 20, 2, 30, 50, 75, 100, 200, 300, 400, 500, 600 or 800 mg active ingredient.

47. A method of inhibiting tumor cell growth in a human or animal body comprising administering to the human or animal body in need thereof an amount of a pharmaceutical composition effective for inhibiting tumor cell growth, wherein the pharmaceutical composition includes compounds of formula (I) or a pharmaceutically acceptable salts of formula (I)



(I)

wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkyloxy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

C1

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consisting of benzyl, diphenylmethyl, phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic or a hydrogenated ring and either directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, benzyl, phenyl,

anellated bi- and tricyclic aromatic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic ring and either directly or over a methylene group;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

G^2 is $=CR^8R^9$

which is bound to D by means of a double bond, wherein R^8 and R^9 have the above meaning;

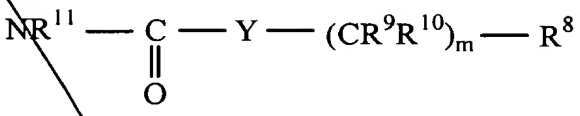
G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2

X is NR^{11}, O or S wherein

R^{11} has the same meanings as R^4, but is selected independently thereof,

G^4 is selected from the group consisting of



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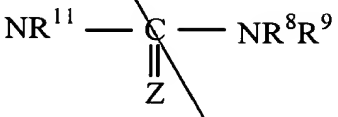
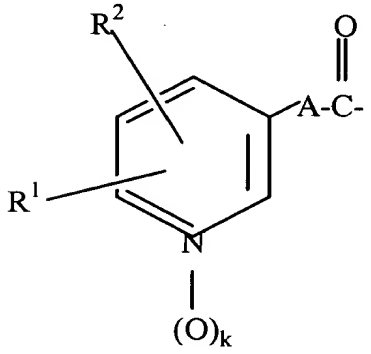


wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues



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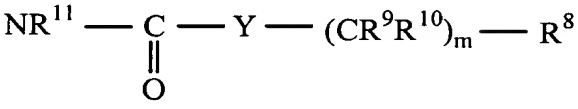


are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

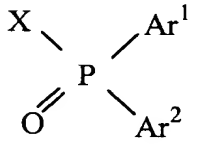
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



wherein X has the above meanings and

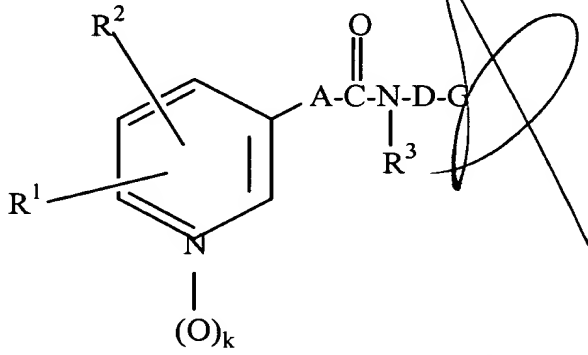
Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl;

and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

48. A method of suppressing autoimmune disease in a human or animal body comprising administering to the human or animal body in need thereof an amount of a pharmaceutical composition effective for suppressing autoimmune disease, wherein the pharmaceutical composition includes compounds of formula (I) or pharmaceutically acceptable salts of formula (I)



(I)

wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkyloxy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-

dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consisting of benzyl, diphenylmethyl, phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic or a hydrogenated ring and either directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, benzyl, phenyl,

anellated bi- and tricyclic aromatic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic ring and either directly or over a methylene group;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

G^2 is $=CR^8R^9$

which is bound to D by means of a double bond, wherein R^8 and R^9 have the above meaning;

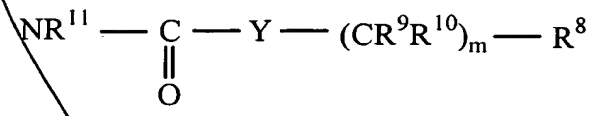
G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2

X is NR^{11}, O or S wherein

R^{11} has the same meanings as R^4, but is selected independently thereof,

G^4 is selected from the group consisting of



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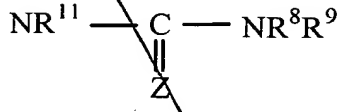
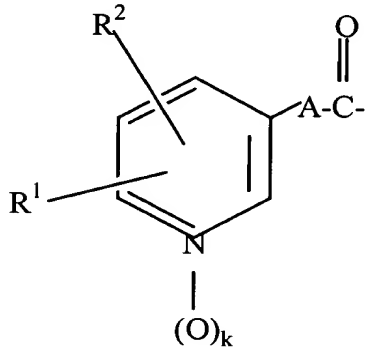


wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues



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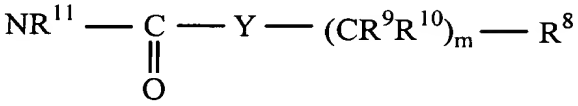


are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

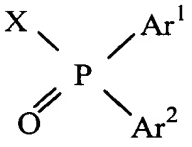
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



wherein X has the above meanings and

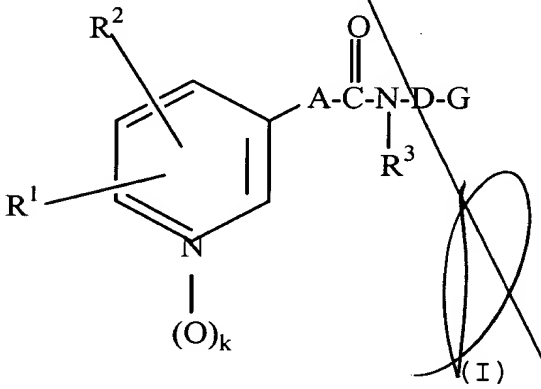
Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl;

and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

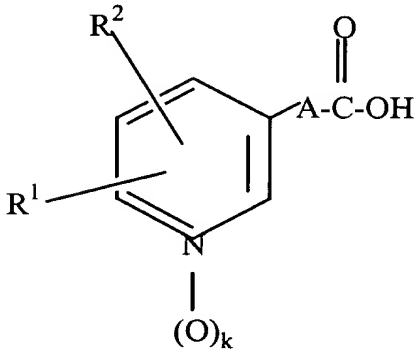
the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

49. A method for the production of a compound of formula (I)



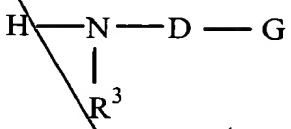
(I)

the method comprising reacting a compound of formula (II)



(II)

with compounds of formula (III)



(III)

in an inert solvent or polar aprotic solvent or solvent mixture or in the presence of auxiliary base in the form of a carbonate or organic amine at a reaction temperature between -40°C and 180°C,

wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

C1

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-

alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is selected from the group consisting of G^1, G^2, G^3, G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

G^1 is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consisting of benzyl, diphenylmethyl, phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic or a hydrogenated ring and either directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, benzyl, phenyl,

anellated bi- and tricyclic aromatic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic ring and either directly or over a methylene group;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

C1

G^2 is $=CR^8R^9$

which is bound to D by means of a double bond, wherein R^8 and R^9 have the above meaning;

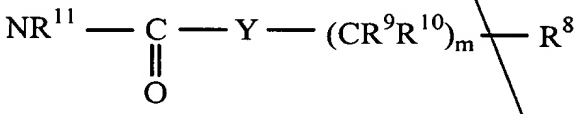
G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$ or $-NR^8R^9$
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2

X is NR^{11}, O or S wherein

R^{11} has the same meanings as R^4, but is selected independently thereof,

G^4 is selected from the group consisting of



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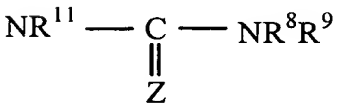
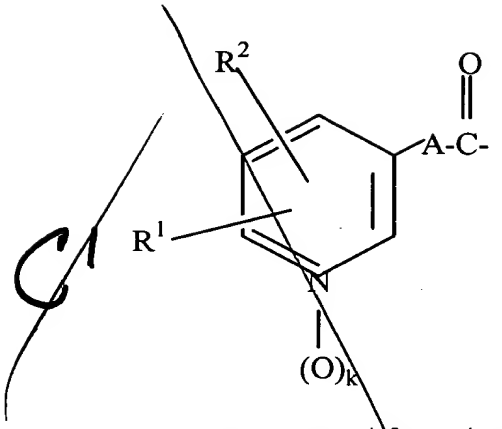


wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues



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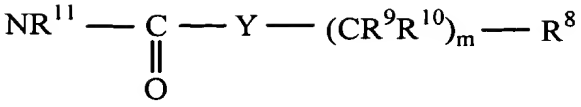


are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

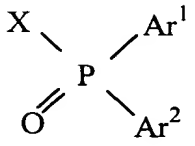
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



wherein X has the above meanings and

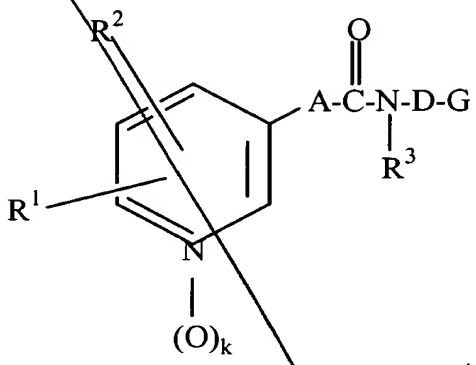
Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl;

and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

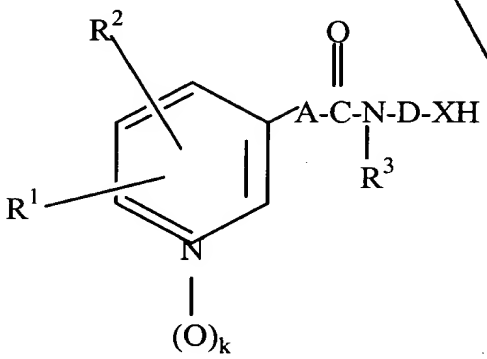
the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

50. A method for the production of a compound of formula (I)



(I)

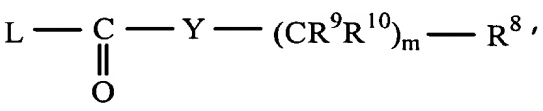
the method comprising reacting a compound of formula (IV)

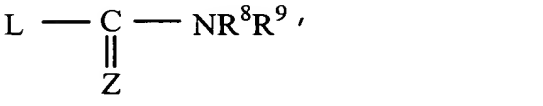


(IV)

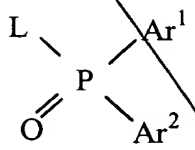
with alkylation or arylation agents or carboxylic acid, carbamic acid, thiocarbamic acid, sulfonic acid or phosphinic acid derivatives of the following compounds

$L-(CH_2)_n-(CR^9R^{10})_m-R^8$,





$L\text{-}SO_2\text{-}R^{12}$, and



wherein L represents a nucleofuge, X = NR^{11} and
R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein

R^7 has the same as R^6, but is selected independently thereof;

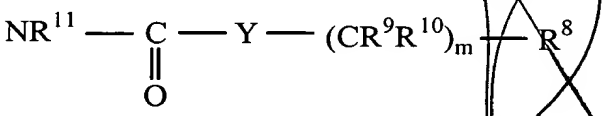
G is selected from the group consisting of G^3, G^4, G^5 and G^6 wherein G must contain at least one aromatic ring, wherein

G^3 is $-X-(CH_2)_n-(CR^9R^{10})_m-R^8$
wherein m and the substituents R^8, R^9, and R^{10} have the above meanings, and

n is 0, 1 or 2

X is NR^{11}, O or S wherein

R^{11} has the same meanings as R^4, but is selected independently thereof,
G^4 is selected from the group consisting of



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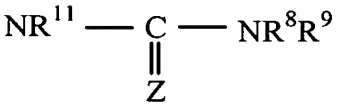
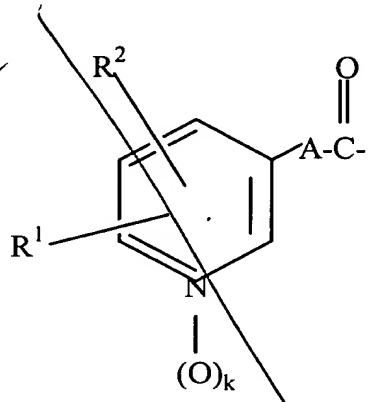


wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues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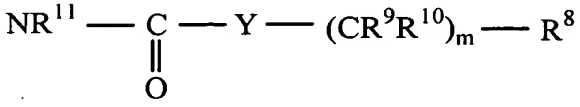


are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

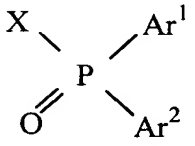
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



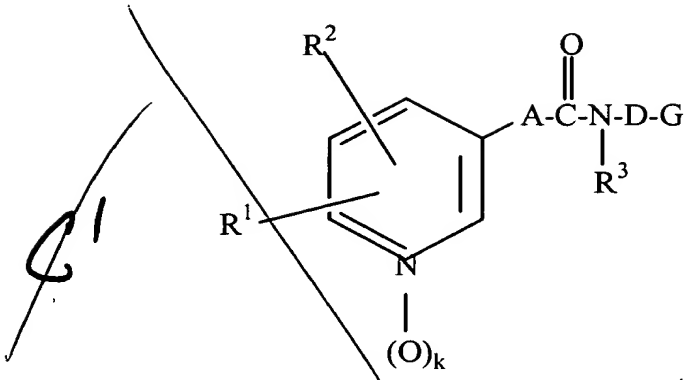
wherein X has the above meanings and

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl; and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

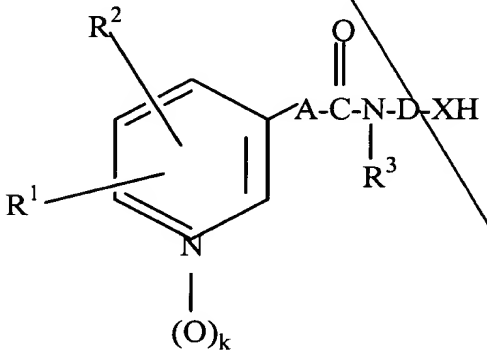
the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

51. A method for the production of a compound of formula (I)



(I)

the method comprising reacting a compound of formula (IV)



(IV)

in an inert solvent with alkylation or arylation agents of $L-(CH_2)_n-(CR^9R^{10})_m-R^8$ at a temperature of between 0°C and 180°C,

wherein L is a leaving group and

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is $-(CR^9R^{10})_m-R^8$

and

m is 0 or 1,

R^8 is selected from the group consisting of benzyl, diphenylmethyl, phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage

C1

can occur over an aromatic or a hydrogenated ring and either directly or over a methylene group;

R^9 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, benzyl, phenyl,

anellated bi- and tricyclic aromatic ring systems with 8 to 18 ring atoms, and at least one aromatic ring, wherein the linkage can occur over an aromatic ring and either directly or over a methylene group;

R^{10} is the same as R^9, but is selected independently thereof, or is hydroxy;

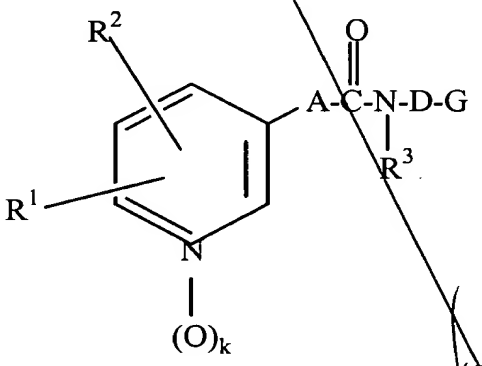
Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl; and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected

from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

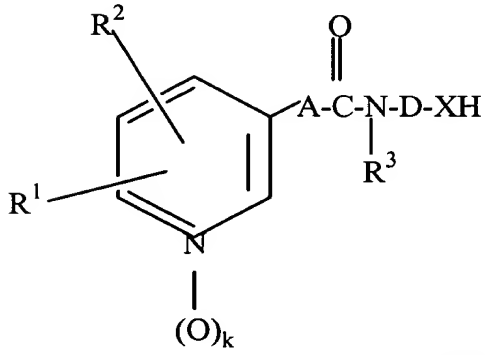
the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

52. A method for the production of a compound of formula (I)



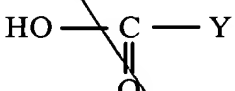
(I)

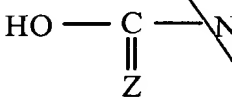
the method comprising reacting a compound of formula (IV)



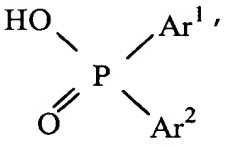
(IV)

with alkylation or arylation agents or carboxylic acid, carbamic acid, thiocarbamic acid, sulfonic acid or phosphinic acid derivatives of the following compounds





$HO-SO_2-R_{12}$, and



wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

C1

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

C1

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

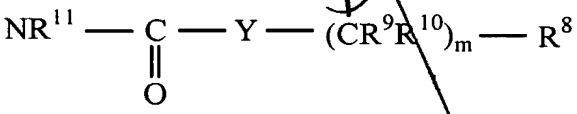
C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

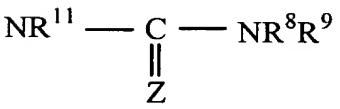
C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is selected from the group consisting of G^4, G^5, and G^6 wherein G must contain at least one aromatic ring, wherein

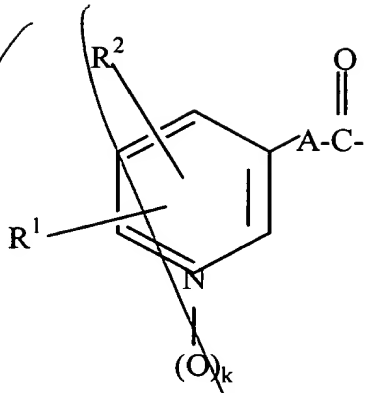
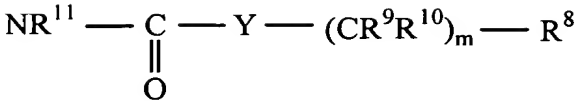
G^4 is selected from the group consisting of



and



wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning, wherein the residues


and 

are not identical, and

Y is selected from the grouping consisting of methylene, ethylene, ethenylene, or represents a bond, and

Z is O or S;

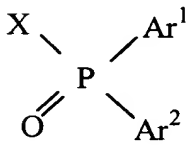
G^5 is $-NR^{11}-SO_2-R^{12}$

wherein R^{11} has the above meaning, and

R^{12} is selected from the group consisting of C_1-C_6-alkyl and phenyl,

anellated bi- and tricyclic aromatic or partially hydrogenated carbocyclic ring systems with 8 to 18 ring atoms, and at least an aromatic ring, wherein the linkage can occur either over an aromatic ring,

G^6 is



C1

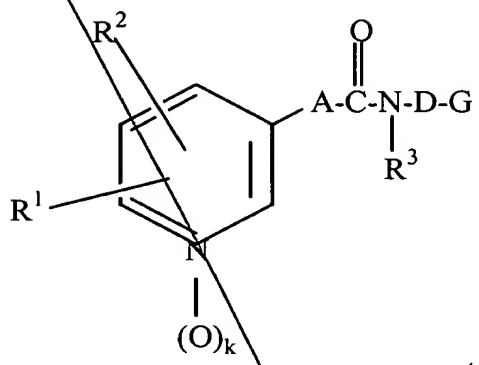
wherein X has the above meanings and

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl; and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10}, R^{11}, R^{12}, Ar^1 and Ar^2 and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

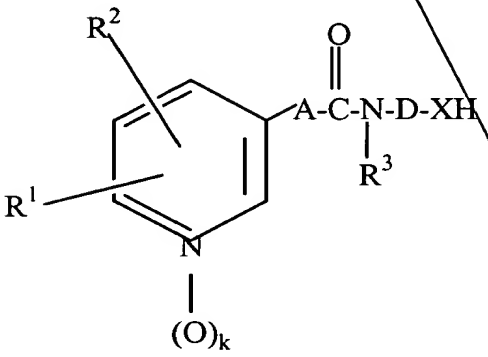
the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

53. A method for the production of a compound of formula (I)



(I)

the method comprising reacting a compound of formula (IV)



(IV)

are reacted with a carbonyl group transmitter to form an intermediate, wherein the carbonyl group transmitter is bis-trichloromethyl carbonate or carbonyldiimidazole,

wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkyloxy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-

dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

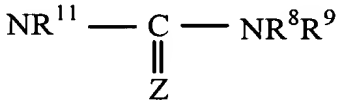
C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is 

wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning,

Z is O or S;

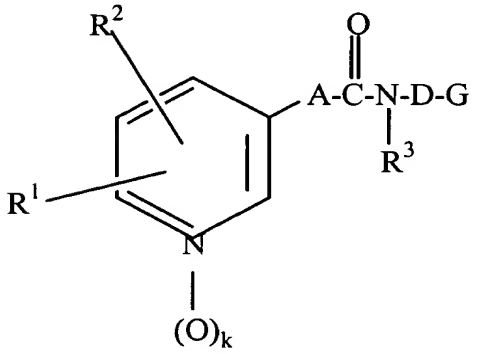
and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10} and R^{11} and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other

by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

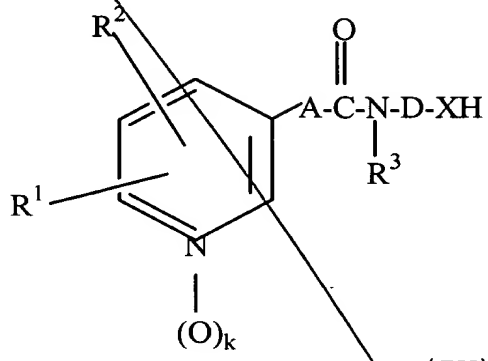
the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.

54. A method for the production of a compound of formula (I)



(I)

the method comprising reacting a compound of formula (IV)



(IV)

with an isocyanate or isothiocyanate having formula $Z=C=N-R^8$ at a temperature of -20°C to 150°C,

wherein

R^1 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_2-C_6-alkinyl, trifluoromethyl, C_3-C_8-cycloalkyl, C_1-C_6-hydroxyalkyl, hydroxy, C_1-C_6-alkoxy, C_3-C_8-cycloalkylozy, benzyloxy, C_1-C_7-alkanoyloxy, C_1-C_6-alkylthio, C_2-C_7-alkoxycarbonyl, aminocarbonyl, C_2-C_7-alkylaminocarbonyl, C_3-C_{13}-dialkylaminocarbonyl, carboxy, phenyl, phenoxy, phenylthio, pyridyloxy, pyridylthio, and NR^4R^5, wherein

R^4 and R^5 are selected independently of each other from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, benzyl and phenyl;

R^2 is selected from the group consisting of hydrogen, halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

R^3 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_3-C_6-alkinyl, hydroxy, C_1-C_6-alkoxy and benzyloxy;

k is 0 or 1,

A is selected from the group consisting of C_1-C_6-alkylene,

a substituted C_1-C_6-alkylene which may be substituted one to three-fold by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, or phenyl,

C_2-C_6-alkylene, in which a methylene unit is isosterically replaced by O, S, NR^6, CO, SO or SO_2, wherein, with the exception of CO, the isosteric substitution is not adjacent to the amide group and R^6 is selected from the group consisting of hydrogen, C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_6-acyl, and C_1-C_6-alkanesulfonyl,

1,2-cyclopropylene,

C_2-C_6-alkenylene,

a substituted C_2-C_6-alkenylene which is substituted once or twice by C_1-C_3-alkyl, hydroxy, C_1-C_3-alkoxy, fluorine, cyano or phenyl,

C_4-C_6-alkadienylene,

a substituted C_4-C_6-alkadienylene which is substituted once or twice by C_1-C_3-alkyl, fluorine, cyano or phenyl,

1,3,5-hexatrienylene,

C1

a substituted 1,3,5-hexatrienylene, which is substituted by C_1-C_3-alkyl, fluorine, cyano or phenyl, and

ethinylene,

D is selected from the group consisting of

C_3-C_{12}-alkylene,

a substituted C_3-C_{12}-alkylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_3-C_{12}-alkenylene,

a substituted C_3-C_{12}-alkenylene which is substituted once or twice by C_1-C_6- alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkadienylene,

a substituted C_5-C_{12}-alkadienylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

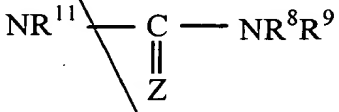
C_3-C_{12}-alkinylene,

a substituted C_3-C_{12}-alkinylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl,

C_5-C_{12}-alkeninylene,

a substituted C_5-C_{12}-alkeninylene which is substituted once or twice by C_1-C_6-alkyl, hydroxy, C_1-C_6-alkoxy or phenyl, and

C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, wherein, with the exception of the (G)-terminal methylene group in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene, one to three methylene units in the C_3-C_{12}-alkylene, C_3-C_{12}-alkenylene or C_3-C_{12}-alkinylene are isosterically replaced by O, S, NR^7, CO, SO or SO_2, wherein R^7 has the same as R^6, but is selected independently thereof;

G is 

wherein structural element D-G cannot contain a total of more than 1 amide grouping, wherein m and the substituents R^8, R^9, R^{10}, R^{11} and the grouping NR^8R^9 can have the above meaning,

Z is O or S;

Ar^1 and Ar^2 are selected independently of each other from the group consisting of phenyl, pyridyl and naphthyl; and wherein aromatic ring systems in the substitutents R^1, R^2, R^3, R^4, R^5, R^8, R^9, R^{10} and R^{11} and in ring systems $=CR^8R^9$ and $-NR^8R^9$ may be substituted independently from each other by one to three of the same or different groups independently selected from the group consisting of halogen, cyano, C_1-C_6-alkyl, trifluoromethyl, C_3-C_8-cycloalkyl, benzyl, phenyl, hydroxy, C_1-C_6-hydroxyalkyl, C_1-C_6-alkoxy, C_1-C_6-alkoxy entirely or partially substituted by fluorine, benyloxy, phenoxy, mercapto, C_1-C_6-alkylthio, phenylthio, sulfo, carboxy, C_2-C_7-carboxyalkyl, C_3-C_7-carboxyalkenyl, C_2-C_7-alkoxycarbonyl, benyloxycarbonyl, nitro, amino, C_1-C_6-aminoalkyl, mono-C_1-C_6-alkylamino, di-

Q1

(C_1-C_6-alkyl)amino and, for two adjacent residues on the aromatic ring, methylenedioxy and

wherein alkyl residues in the Group G can be substituted by one or two of the same or different groups selected from the group consisting of hydroxy, carboxy, C_2-C_7-alkoxycarbonyl, benzyloxycarbonyl, amino, mono-C_1-C_6-alkylamino and di-(C_1-C_6-alkyl)amino;

the cis- and trans-isomers, E- and Z-isomers including the corresponding enantiomers, diastereomers and other isomers, the tautomers and their acid addition salts including their hydrates and solvates.